

IN THE CLAIMS:**Please amend the claims as follows:**

1. (Currently amended) A water treatment system for treating water, said the water treatment system comprising:

a primary water treatment station outputting treated water; and

a solid-based sulfuric generator downstream from said primary water treatment station for producing outputting aqueous sulfuric acid for further treatment of the to the treated water.

a pump comprising a variable frequency drive, the pump generating a water flow through the generator, the water flow being characterized by a water flow rate;

a pH sensor to ascertain the pH of the treated water; and

a control system connected to the pH sensor to receive a signal representative of the pH, compare the signal to a set point for a desired water pH, and provide an output control signal to the variable frequency drive to vary the water flow rate and thereby control the concentration of sulfuric acid in the treated water.

Claims 2-4 (Cancelled).

Claims 5-11 (Withdrawn).

13. (Currently amended) The apparatus according to of claim 1, wherein said the primary
sec ----- water treatment station downstream from said to receive and process the treated water from
the primary water treatment station.

14. (Currently amended) The apparatus according to of claim 13, wherein said the secondary
water treatment station includes comprises aeration tanks and clarifiers.

15. (Currently amended) The apparatus according to of claim 13, further including comprising
----- water treatment station downstream from said to receive and process the treated water from

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